CVEN 3698 ENGINEERING GEOLOGY – FALL 2015

Instructor: Bernard Amadei, ECOT 546, Tel: 303-492-7734
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Textbook: No assigned textbooks. Many readings will be assigned in class.

Core Topics:
- Engineering geology as an interdisciplinary field
- Planet Earth and its population
- Geologic hazards and resilience to hazards
- Minerals and their engineering properties
- Igneous Rocks: geologic classification
- Engineering properties of plutonic rocks
- Engineering properties of volcanic rocks
- Sedimentary Rocks: geologic classification
- Engineering properties of shales, sandstones, etc.
- Engineering properties of soluble rocks
- Metamorphic Rocks: geologic classification
- Engineering properties of metamorphic rocks
- Fundamentals of structural geology
- Distribution of rocks at and below the surface
- Processes, soils and soil properties
- Exploration of an engineering site
- Computational engineering geology

Additional Topics
- Topographic maps and aerial photographs
- Attitude of planes: strike, dip, dip direction
- Attitude of planes: field measurements
- Geologic maps for engineers
- Sedimentary structures
- Geophysical methods
- Stereographic projection

Lectures: MWF 10:00 - 10:50 a.m., Room ECCR 105
Lab: F 3-3:50 p.m., KOBL 210
Office Hours: Open (based on availability) or by appointment (email)
Grading: Exam 1, 20%; Exam 2, 20%; Exam 3, 20%; Case studies, 10%; HW assignments and quizzes, 30%.

TA: Colleen Wilson (colleenwilson@colorado.edu)

Web Site: http://mcedc.colorado.edu/education/additional-courses-hosted-mcedc/cven-3698-engineering-geology
http://mcedc.colorado.edu/education/additional-courses-hosted-mcedc/cven-3698-engineering-geology/week-week

Note: Classes start and finish on time. Attendance to classes and laboratories is mandatory and attendance will be recorded. Late assignments are not accepted (no exceptions). Work will often be done in established study groups. Study groups will remain the same throughout the semester.
Important Policies on Campus

Disability and Medical Conditions

1) If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671 and http://www.Colorado.EDU/disabilityservices.

2) If you have a temporary medical condition or injury, see guidelines at http://www.Colorado.EDU/disabilityservices

3) Disability Services’ letters for students with disabilities indicate legally mandated reasonable accommodations. The syllabus statements and answers to Frequently Asked Questions can be found at http://www.colorado.edu/disabilityservices

Religious Observances

Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. See full details at http://www.colorado.edu/policies/observance-religious-holidays-and-absences-classes-andor-exams

Classroom Behavior

Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. See policies at http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code

Discrimination and Harassment

The University of Colorado at Boulder policy on Discrimination and Harassment, the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships apply to all students, staff and faculty. Any student, staff or faculty member who believes s/he has been the subject of sexual harassment or discrimination or harassment based upon race, color, national origin, sex, age, disability, creed, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Judicial Affairs at 303-492-5550. Information about the ODH, the above referenced policies and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at http://www.colorado.edu/institutionalequity/

Honor Code

All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-735-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at http://www.colorado.edu/policies/student-honor-code-policy and http://www.colorado.edu/policies/academic-integrity-policy.